

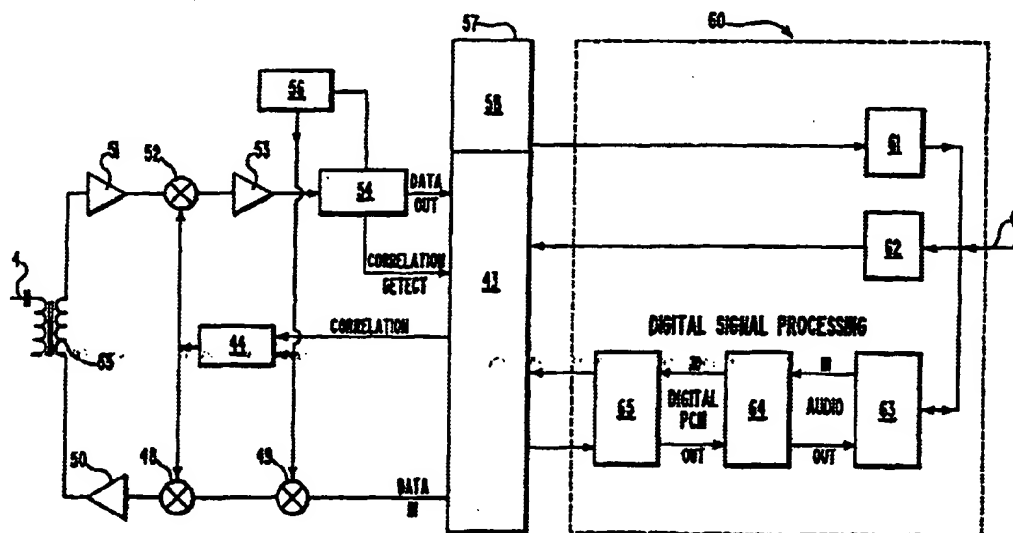
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International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁵ : H04J 13/00, 4/00	A1	(11) International Publication Number: WO 93/07693 (43) International Publication Date: 15 April 1993 (15.04.93)
(21) International Application Number: PCT/US92/08510 (22) International Filing Date: 6 October 1992 (06.10.92) (30) Priority data: 07/773,009 7 October 1991 (07.10.91) US (71) Applicant: PHONEX CORPORATION [US/US]; 6952 High Tech Drive, Midvale, UT 84047-3756 (US). (72) Inventors: BARTHOLOMEW, David, B. ; 5047 Cree Drive, West Valley City, UT 84120 (US). IVIE, A., Ray ; 1174 South 400 West, Orem, UT 84058 (US). SCHURIG, Alma, K. ; 870 East Walnut Avenue, Provo, UT 84604 (US).		(74) Agent: CHRISTIANSEN, Jon, C.; 50 South Main Street, Suite 1600, Salt Lake City, UT 84145 (US). (81) Designated States: AT, AU, BE, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG). Published With international search report.

(54) Title: MULTIPLE ACCESS TELEPHONE EXTENSION SYSTEMS AND METHODS



(57) Abstract

A method and system is provided for conducting multiple access simultaneous telephone communications in full duplex either over the power lines of a building or over a common RF transmission means. The method employs a combination of multiple access techniques selected from among the following: time division (57), code division (48, 52), and frequency division (56). The following features result: (a) security coding to prevent unauthorized access and eavesdropping, (b) multiple simultaneous conversations through identical and closely coupled transmission media, (c) non-interference to other communications systems and users, and (d) processing gain for operating in noisy environments. The method also relates to improvements in cordless telephone communication.